

Amendments to the Claims

Deleted matter is indicated by strikethrough, and added matter is indicated by underlining.

What is claimed is:

1. (Currently Amended) A method of testing an attachment ~~a hold~~ (120, 220, 520) attached to an object (~~130, 230, 530~~), the method comprising the steps of: bringing a member (~~110, 210, 510~~) into contact with said attachment ~~hold~~, bringing said member into vibration, contactlessly detecting at least one resonance frequency of said member (~~110, 210, 510~~) ~~when it is in contact with said hold~~ (120, 220, 510); and interpreting the detected resonance frequency in terms of the degree of attachment of the attachment ~~hold~~ with respect to the object.
2. (Currently Amended) The method according to claim 1, including the step of detachably attaching said member to said attachment ~~hold~~.
3. (Currently Amended) The method according to claim 1 ~~or 2~~, wherein said member (~~110, 120, 520~~) comprises a cantilever beam.
4. (Currently Amended) The method according to claim 1 ~~any of preceding claims~~, wherein said member (~~110~~) comprises a magnetic part (~~140~~).
5. (Currently Amended) The method according to claim 4, wherein said resonance frequency is detected by means of a coil (~~153~~).
6. (Currently Amended) The method according to claim 1 ~~any of claims 1 to 3~~, wherein said member (~~210~~) comprises a marking (~~240~~).
7. (Currently Amended) The method according to claim 6, wherein said resonance frequency is detected by means of an illumination detector (~~253a~~).
8. (Currently Amended) The method according to claim 1 ~~any of claims 1 to 3~~, wherein said member (~~510~~) is made of a ferromagnetic material.
9. (Currently Amended) The method according to claim 8, wherein said resonance frequency is detected by means of said member disturbing a magnetic field (~~565~~).

10. (Currently Amended) The method according to claim 3, wherein said attachment hold includes a threaded bore, and said cantilever beam is screwed to or into the attachment hold.

11. (Currently Amended) The method according to claim 1 ~~any of claims 1 to 10~~, including the step of comparing the detected resonance frequency with one or more values for the resonance frequencies of the same or similar members in contact with other attachments holds.

12. (Currently Amended) A method according to claim 1 ~~any of claims 1 to 11~~, including the step of comparing the detected resonance frequency with one or more values, taken at different times, for the resonance frequencies of the same or similar member in contact with the same attachment hold.

13. (Currently Amended) The method according to claim 1 ~~any of claims 1 to 12~~, including the steps of exciting the member with a force, detecting the response of the member to the force.

14. (Original) A method according to claim 13, including deriving an output which is the ratio of the voltage of the response signal to that of the excitation signal.

15. (Currently Amended) A method according to claim 1 ~~any of previous claims~~, wherein said attachment hold is an implant and said object is a bone.

16. (Currently Amended) An arrangement ~~(100, 200, 500)~~ for testing an implant ~~(120, 220, 520)~~ attached to a bone ~~(130, 230, 530)~~, the arrangement comprising: a member ~~(110, 210, 510)~~ adapted to be releasably attached to said implant, detecting means ~~(150, 250, 550)~~ for detecting at least one resonance frequency of the member when it is attached to the implant, wherein ~~characterized in that~~ said member ~~(110, 210)~~ comprises a detectable part ~~(140, 240, 540)~~ and ~~that~~ said detecting means ~~(150, 250)~~ comprises a detector ~~(150, 250)~~ for contactless detection of said detectable part.

17. (Currently Amended) The arrangement ~~(100)~~ according to claim 16, wherein said detectable part comprises a magnetic member ~~(140)~~.

18. (Currently Amended) The arrangement ~~(100)~~ according to claim 16 ~~17~~, wherein said detector ~~(150)~~ comprises a coil ~~(153)~~.

19. (Currently Amended) The arrangement (~~100~~) according to claim 16 ~~any of claims 16 to 18~~, further comprising an amplifier (~~154~~), a processor (~~155~~), and a data storing arrangement ~~store~~ (~~156~~).

20. (Currently Amended) The arrangement (~~100~~) according to claim 16, wherein signals detected by the detector (~~151~~) are amplified by said amplifier (~~154~~) and applied as an input to be analysed; the analysed output, which represents a ratio of a response voltage to the excitation, is fed to said processor, which varies the frequency output of the oscillator of the analyser, and stores the results in said data storing arrangement ~~store~~ (~~156~~).

21. (Currently Amended) The arrangement (~~200~~) according to claim 16, wherein said detectable part comprises a marker (~~240~~).

22. (Currently Amended) The arrangement (~~200~~) according to claim 21, wherein said detector (~~250~~) comprises an illumination detector (~~253b~~).

23. (Currently Amended) The arrangement (~~200~~) according to claim 21 ~~or 22~~, further comprising an illuminator (~~253a~~).

24. (Currently Amended) The arrangement (~~500~~) according to claim 16, wherein said detectable part consists of a ferromagnetic material.

25. (Currently Amended) The arrangement (~~500~~) according to claim 24, wherein said detector (~~550~~) comprises a coil (~~553~~) for detecting disturbances in an external magnetic field.

26. (Currently Amended) The arrangement (~~100,200~~) according to claim 16 ~~any of claims 16 to 25~~, wherein the member comprises a cantilever beam.

27. (Currently Amended) The arrangement (~~100,200~~) according to claim 26, wherein the beam is arranged or adapted to resonate at a frequency within the range of about 1 to 20 kHz, ~~preferably about 1 to 10 kHz, and more preferably of the order of 8 kHz.~~

28. (Currently Amended) The arrangement (~~100,200,500~~) according to claim 16 ~~any of claims 16 to 27~~, wherein said member (~~110,210,510~~) is disposable.

29. (Currently Amended) A disposable implant testing part (~~110,210,510~~) provided for testing an implant (~~120,220,520~~) attached to a bone (~~130,230,530~~), said part comprising a detectable part (~~140,240,540~~), which can be detected contactless by means of a detector.

30. (New) The arrangement according to claim 27, wherein the beam is arranged or adapted to resonate at a frequency within the range of about 1 to 10 kHz.

31. (New) The arrangement according to claim 30, wherein the beam is arranged or adapted to resonate at a frequency of about 8 kHz.